

## Refine Search

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L1 near20 food	3

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### Search History

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<u>L1</u>	fucoidan	374	<u>L1</u>

END OF SEARCH HISTORY

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=> s l1

L2 1126 L1

=> s l2 and agaricus

2902 AGARICUS

L3 10 L2 AND AGARICUS

=> d l3 1-10

L3 ANSWER 1 OF 10 CA COPYRIGHT 2007 ACS on STN

AN 145:470511 CA

TI Dietary supplements containing barley young leaf- or green vegetable  
 juice-derived materials and citric acid or acetic acid sources

IN Tokashiki, Akira; Hisamatsu, Koji; Sakai, Anri; Fujiki, Shigetada;  
 Yoshinaga, Seiichi

PA Japan

SO Jpn. Kokai Tokkyo Koho, 11pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2006304785	A	20061109	JP 2006-95163	20060330
PRAI	JP 2005-96959	A	20050330		

L3 ANSWER 2 OF 10 CA COPYRIGHT 2007 ACS on STN

AN 145:449194 CA

TI Ex vivo gene expression in whole blood as a model of assessment of  
 individual variation to dietary supplements

IN Mitshuhashi, Masato

PA Hitachi Chemical Research Center, Inc., USA; Hitachi Chemical Co., Ltd.

SO PCT Int. Appl., 28pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006116721	A1	20061102	WO 2006-US16376	20060428
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,				

IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,  
CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
KG, KZ, MD, RU, TJ, TM

PRAI US 2005-675580P P 20050428

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 10 CA COPYRIGHT 2007 ACS on STN

AN 144:449848 CA

TI Antioxidant activities of fucoidan-mix food

AU Maemura, Motoko; Umeda, Tomoko; Tsuji, Hiromitsu; Kirino, Tomomi;  
Morishita, Akiko; Fujii, Makato

CS R&D Dep., Venturno Co., Ltd., Japan

SO Food Style 21 (2005), 9(11), 25-27

CODEN: FSTYFF; ISSN: 1343-9502

PB Shokuhin Kagaku Shinbunsha

DT Journal; General Review

LA Japanese

L3 ANSWER 4 OF 10 CA COPYRIGHT 2007 ACS on STN

AN 143:366258 CA

TI Low-calorie konnyaku health food rich in dietary fiber

IN Minamitani, Yoshio

PA Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005295840	A	20051027	JP 2004-114070	20040408
PRAI	JP 2004-114070		20040408		

L3 ANSWER 5 OF 10 CA COPYRIGHT 2007 ACS on STN

AN 143:139181 CA

TI Oral and injection compositions containing vitamin C derivatives,  
antitumor polysaccharides, and antioxidants, and manufacture thereof

IN Iida, Shigeo

PA Japan

SO Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005194255	A	20050721	JP 2004-28651	20040106
PRAI	JP 2004-28651		20040106		

L3 ANSWER 6 OF 10 CA COPYRIGHT 2007 ACS on STN

AN 143:43113 CA

TI Fucoidan-based health food

IN Fujii, Makoto; Hou, De-Xing; Nakamizo, Masaji

PA Japan

SO U.S. Pat. Appl. Publ., 10 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005129708	A1	20050616	US 2003-735958	20031215

L3 ANSWER 7 OF 10 CA COPYRIGHT 2007 ACS on STN  
AN 140:110445 CA  
TI Health foods containing fucoidan and Agaricus powder  
IN Fujii, Makoto; Ko, Noritomo; Nakamizo, Kimitsugu  
PA Ventuno Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 10 pp.  
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004024054	A	20040129	JP 2002-182057	20020621
PRAI	JP 2002-182057		20020621		

L3 ANSWER 8 OF 10 CA COPYRIGHT 2007 ACS on STN  
AN 137:108760 CA  
TI Immunostimulating foods containing processed kale and immunostimulating materials  
IN Takagaki, Kinya; Maruyama, Shinjiro  
PA Toyo Shinyaku Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 11 pp.  
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002209552	A	20020730	JP 2001-7584	20010116
PRAI	JP 2001-7584		20010116		

L3 ANSWER 9 OF 10 CA COPYRIGHT 2007 ACS on STN  
AN 136:95619 CA  
TI Examination of lectins, polysaccharopeptide, polysaccharide, alkaloid, coumarin and trypsin inhibitors for inhibitory activity against human immunodeficiency virus reverse transcriptase and glycohydrolases  
AU Wang, H. X.; Ng, T. B.  
CS Department of Microbiology, China Agricultural University, Beijing, Peop. Rep. China  
SO Planta Medica (2001), 67(7), 669-672  
CODEN: PLMEAA; ISSN: 0032-0943  
PB Georg Thieme Verlag  
DT Journal  
LA English

RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 10 OF 10 CA COPYRIGHT 2007 ACS on STN  
AN 125:51887 CA  
TI A multispecific saline-soluble lectin from the parasitic fungus Arthrotrichum oligospora: similarities in the binding specificities compared with a lectin from the mushroom Agaricus bisporus  
AU Rosen, Stefan; Bergstroem, Joergen; Karlsson, Karl-Anders; Tunlid, Anders  
CS Department Microbial Ecology, Lund University, Lund, S-223 62, Swed.  
SO European Journal of Biochemistry (1996), 238(3), 830-837  
CODEN: EJBCAI; ISSN: 0014-2956  
PB Springer  
DT Journal  
LA English

L3 ANSWER 1 OF 10 CA COPYRIGHT 2007 ACS on STN

AN 145:470511 CA

AB Dietary supplements, which show hematopoietic, antiinflammatory, hypoglycemic, antihypertensive, antifatigue, dietetic, intestinal function control effects, etc., contain (a) barley young leaf-derived materials or green vegetable materials, e.g. mulberry leaf, etc., and (b) citric acids or acetic acids, e.g. awamori moromi vinegar, lemon, shiikuwasha (Citrus depressa), kurosu (dark color rice vinegar), gluconic acid, malic acid, succinic acid, etc. The barley young leaf-derived materials may be those with increased SOD activity and chlorophylls, manufactured by treatment with a continuous-transfer low-temperature dryer.

L3 ANSWER 2 OF 10 CA COPYRIGHT 2007 ACS on STN

AN 145:449194 CA

AB The present invention discloses a method for tailoring dietary components such as supplements to individual mammals based on the levels of marker mRNA measured in leukocytes after exposure of whole blood of the mammal to candidate dietary components. In embodiments of the present invention, the individual variation in response to various dietary components such as dietary supplements was assessed. Heparinized human whole blood was incubated with each dietary component ex vivo, and the changes in gene expression induced by exposure to the dietary components was assessed by quantitating the expression of genes linked to conditions such as cancer, autoimmune diseases, and the like in leukocytes exposed to the dietary supplements, as well as in those not so exposed. In some cases, the whole blood was subjected to stimulation with a stimulating agent such as phytohemagglutinin, radiation, or heat-aggregated IgG ("HAG") before quantitating the mRNA levels. Addnl., for some dietary supplements, before quantitating the mRNA level in unexposed whole blood, the blood was exposed to the vehicle in which the dietary supplement is normally dissolved. Some dietary components were found to augment or inhibit gene expression; however, substantial individual-to-individual variation was identified, and this variation was statistically significant. For a given individual, the mRNA changes induced by exposure of the whole blood of the individual to a particular dietary component will be correlated with the potential effectiveness of the dietary component in the prophylaxis or treatment of the condition to which the mRNA is linked.

L3 ANSWER 3 OF 10 CA COPYRIGHT 2007 ACS on STN

AN 144:449848 CA

AB A review discussing antioxidative activities of fucoidan mix which is a mixture of Cladosiphon okamuranus-derived fucoidan, Sporophyll of Undaria pinnatifida-derived fucoidan, and Agaricus mycelium extract, and polyphenol content therein is provided.

L3 ANSWER 4 OF 10 CA COPYRIGHT 2007 ACS on STN

AN 143:366258 CA

AB The health food contains ultralow-calorie glucomannan dietary fiber-rich konnyaku powder and nutrient materials at amts. in the ranges between the lower and upper limits of recommended daily allowances and satisfies the stds. of foods with health claims. The nutrient materials may be heme-iron, seaweed powder, soybean milk powder, chlorella, vitamins, minerals, dietary fiber, Zn, etc.

L3 ANSWER 5 OF 10 CA COPYRIGHT 2007 ACS on STN

AN 143:139181 CA

AB The invention relates to an oral and/or injection composition for treatment and/or prevention of various disease including tumor, wherein the composition is characterized by containing a bound compound of a vitamin C derivative, an antitumor polysaccharide, and an antioxidant. A method for manufacturing the composition including freeze-drying and/or spray-drying of the mixture of the components is also disclosed. For example, a mixture containing ascorbic acid 40, L-ascorbic acid-2-O-phosphate sodium salt 7, 6-O-palmitoyl-L-ascorbic

acid 3, *Agaricus blazei* extract 16, *Phellinus linteus* 16, fucoidan 16, and marine taurine 2 parts was freeze-dried. The obtained freeze-dried composition was injected to mice to examine the antitumor effect.

L3 ANSWER 6 OF 10 CA COPYRIGHT 2007 ACS on STN

AN 143:43113 CA

AB A fucoidan-based polysaccharide composite extracted from wakame (*Undaria pinnatifida*) has application as a bioprotective accelerator and immunostimulator. A fucoidan-based health food having antihyperglycemic effects is obtained by mixing an *Agaricus* powder with a mixture of 1-90% fucoidan fraction extraction-fractionated from sprouts of wakame and the remainder of a fucoidan fraction extraction-fractionated from Okinawa *Tinocladia crassa*. A preferable formulation comprises *Agaricus* powder added to a mixture consisting of 15-35% wakame fucoidan fraction plus 65-85% *T. crassa* fucoidan fraction in a content of 10-20% by weight based on the whole amount of the mixture

L3 ANSWER 7 OF 10 CA COPYRIGHT 2007 ACS on STN

AN 140:110445 CA

AB The foods, which show antihyperglycemic effect, contain (a) fucoidan mixts. comprising 1-90% fucoidan fractions extracted from wakame (*Undaria pinnatifida*) sporophyll and 10-99% those extracted from *Tinocladia crassa* and (b) *Agaricus* powders. A composition comprising wakame sporophyll fucoidan 15-35, *T. crassa* fucoidan 65-85, and *A. blazei* powder 10-20% was added to a feed at 2% and fed to rats to show body weight control, tumor control, and decrease of serum triglyceride, LDL-cholesterol, adipose tissues, and blood sugar.

L3 ANSWER 8 OF 10 CA COPYRIGHT 2007 ACS on STN

AN 137:108760 CA

AB Title foods are claimed. Processed kale and immunostimulating materials (e.g. polysaccharide-containing or flavonoid-containing materials) show synergistic immunostimulating activities, thus useful for treatment of tumor. Thus, mice bearing Sarcoma 180 cell were fed a diet containing GABA-enriched kale powder and fucoidan for 5 wk to show remarkable inhibition of tumor growth.

L3 ANSWER 9 OF 10 CA COPYRIGHT 2007 ACS on STN

AN 136:95619 CA

AB A variety of lectins were tested in vitro for inhibitory action against the activities of human immunodeficiency virus type 1 (HIV-1) reverse transcriptase and the N-glycohydrolases ( $\alpha$ -glucosidase,  $\beta$ -glucosidase, and  $\beta$ -glucuronidase). Lectins from *Phaseolus vulgaris*, *Momordica charantia*, *Ricinus communis* and its constituent chains, and *Agaricus bisporus* were able to inhibit HIV-1 reverse transcriptase. *P. vulgaris* lectin and *A. bisporus* lectin were the most potent. The aforementioned lectins had only weak or no inhibitory effects on the glycohydrolases. The inhibitory effect of polysaccharopeptide from the mushroom *Coriolus versicolor* on HIV-1 reverse transcriptase and  $\alpha$ -glucosidase was enhanced after chemical modification with chlorosulfonic acid. However, the inhibitory effect of the algal polysaccharide fucoidan on HIV-1 reverse transcriptase and  $\alpha$ -glucosidase was not augmented by sulfation. Trypsin inhibitors from *Phaseolus lunatus* and *Glycine max*, gossypol and alkaloids from *Corydalis yanhusuo* were able to inhibit HIV-1 reverse transcriptase. Dicoumarol was capable of inhibiting HIV-1 reverse transcriptase,  $\alpha$ -glucosidase,  $\beta$ -glucosidase, and  $\beta$ -glucuronidase.

L3 ANSWER 10 OF 10 CA COPYRIGHT 2007 ACS on STN

AN 125:51887 CA

AB Several fungi can express high levels of saline-soluble and low-mol.-mass lectins that bind to glycoproteins such as fetuin and different mucins but do not bind to monosaccharides. In this paper, we report the binding specificities of such a lectin (designated AOL) isolated from the

nematophagous fungus *Arthrobotrys oligospora*. The results show that AOL is a multispecific lectin that interacts with the following ligands: (a) several sulfated glycoconjugates including sulfatide, dextran sulfate, and fucoidan. The specificity of this binding was indicated by expts. showing that none of the tested neutral- and sialic acid-containing glycolipids, chondroitin sulfates B and C, heparin, and polyvinyl sulfate bound to AOL; (b) phosphatidic acid and phosphatidylglycerol, two out of several tested phospholipids; (c) N-linked and O-linked sugar chains bound to intact fetuin. The involvement of such sugar structures was demonstrated by analyzing the binding of AOL to chemical deglycosylated (trifluoromethanesulfonic acid) fetuin. Treating fetuin with O-glycosidase and N-glycosidase indicated that AOL bound to Gal $\beta$ 3-GalNAc $\alpha$ -Ser/Thr and to some N-linked complex sugars, resp. Further assays demonstrated that AOL could interact with several other glycoproteins containing O-linked and/or N-linked sugar chains. The observations that AOL did not bind to free N-linked sugars isolated from fetuin, or to fetuin treated with trypsin or Pronase, or to any of the tested neoglycoproteins and glycolipids with neutral- or sialic acid-containing sugars, indicated that the sugar chains need to be bound to an intact peptide backbone to interact with AOL. We have recently shown that the deduced primary structure of AOL has a high similarity to the sequence of a saline-soluble lectin isolated from the mushroom *Agaricus bisporus* (ABL) (Rosen, S., Kata, M., Persson, Y., Lipniunas, P. H., Wikstroem, M., van den Hondel, C. A. M. J. J., van den Brink, J. M., Rask, L., Heden L.-O. and Tunlid, A.). It is well known that ABL binds to Gal $\beta$ 3GalNAc $\alpha$ -Ser/Thr, and in this paper we demonstrate that ABL binds to sulfatide, phosphatidic acid, phosphatidylglycerol, and possibly also to the same N-linked complex sugars as AOL. The above data indicate that AOL and ABL are members of a novel family of fungal lectins sharing similar primary structure and binding properties.